

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001525

| A. CLASSIFICATION OF SUBJECT MATTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                    |                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Int. Cl. <sup>7</sup> : H01H 13/702, H01H 13/705, H05K 1/16, H01R 12/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                    |                                                                         |
| According to International Patent Classification (IPC) or to both national classification and IPC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                    |                                                                         |
| B. FIELDS SEARCHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                    |                                                                         |
| Minimum documentation searched (classification system followed by classification symbols)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                    |                                                                         |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                    |                                                                         |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>DWPI & IPC H01H, H01R, H05K and keywords : (switch, key switch, pcb, surface mount, bearer, resilient, recess, 'c' shape) and similar terms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                    |                                                                         |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |                                                                         |
| Category*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Citation of document, with indication, where appropriate, of the relevant passages                                                                 | Relevant to claim No.                                                   |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 6303888 B1 ( <i>OKAMOTO et al.</i> ) 16 October 2001<br>The Entire Document                                                                     | 1 – 14                                                                  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Derwent Abstract Accession No. 98-257139/23, Class V03,<br>JP 10083730 – A ( <i>HOKURIKU DENKI KOGYO KK</i> ) 31 March 1998<br>Abstract & Drawings | 1 – 14                                                                  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EP 1207543 A2 ( <i>HOSIDEN CORPORATION</i> ) 22 May 2002<br>The Entire Document                                                                    | 1 – 14                                                                  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US 4768284 A ( <i>De FILIPPIS et al.</i> ) 6 September 1988<br>The Entire Document                                                                 | 1 – 14                                                                  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                    |                                                                         |
| <p>* Special categories of cited documents:</p> <p>"A" DOCUMENT DEFINING THE GENERAL STATE OF THE ART WHICH IS NOT CONSIDERED TO BE OF PARTICULAR RELEVANCE</p> <p>"E" EARLIER APPLICATION OR PATENT BUT PUBLISHED ON OR AFTER THE INTERNATIONAL FILING DATE</p> <p>"L" DOCUMENT WHICH MAY THROW DOUBTS ON PRIORITY CLAIM(S) OR WHICH IS CITED TO ESTABLISH THE PUBLICATION DATE OF ANOTHER CITATION OR OTHER SPECIAL REASON (AS SPECIFIED)</p> <p>"O" DOCUMENT REFERRING TO AN ORAL DISCLOSURE, USE, EXHIBITION OR OTHER MEANS</p> <p>"P" DOCUMENT PUBLISHED PRIOR TO THE INTERNATIONAL FILING DATE BUT LATER THAN THE PRIORITY DATE CLAIMED</p> <p>"T" LATER DOCUMENT PUBLISHED AFTER THE INTERNATIONAL FILING DATE OR PRIORITY DATE AND NOT IN CONFLICT WITH THE APPLICATION BUT CITED TO UNDERSTAND THE PRINCIPLE OR THEORY UNDERLYING THE INVENTION</p> <p>"X" DOCUMENT OF PARTICULAR RELEVANCE; THE CLAIMED INVENTION CANNOT BE CONSIDERED NOVEL OR CANNOT BE CONSIDERED TO INVOLVE AN INVENTIVE STEP WHEN THE DOCUMENT IS TAKEN ALONE</p> <p>"Y" DOCUMENT OF PARTICULAR RELEVANCE; THE CLAIMED INVENTION CANNOT BE CONSIDERED TO INVOLVE AN INVENTIVE STEP WHEN THE DOCUMENT IS COMBINED WITH ONE OR MORE OTHER SUCH DOCUMENTS, SUCH COMBINATION BEING OBVIOUS TO A PERSON SKILLED IN THE ART</p> <p>"&amp;" DOCUMENT MEMBER OF THE SAME PATENT FAMILY</p> |                                                                                                                                                    |                                                                         |
| Date of the actual completion of the international search<br>26 November 2004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                    | Date of mailing of the international search report<br>- 2 DEC 2004      |
| Name and mailing address of the ISA/AU<br>AUSTRALIAN PATENT OFFICE<br>PO BOX 200, WODEN ACT 2606, AUSTRALIA<br>E-mail address: pct@ipaustalia.gov.au<br>Facsimile No. (02) 6285 3929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    | Authorized officer<br><br>AMOD PRADHAN<br>Telephone No : (02) 6283 2510 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |                                                                                                                                                           |                       |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Category*                                             | Citation of document, with indication, where appropriate, of the relevant passages                                                                        | Relevant to claim No. |
| X                                                     | Derwent Abstract Accession No. 97-124205/12, Class V03,<br>JP 09007453 - A ( <i>MATSUSHITA DENKI SANGYO KK</i> ) 10 January 1997<br>Abstract & Drawings   | 1 - 14                |
| X                                                     | Derwent Abstract Accession No. 98-573861/49, Class V03,<br>JP 10255589 - A ( <i>MATSUSHITA DENKI SANGYO KK</i> ) 25 September 1998<br>Abstract & Drawings | 1 - 14                |

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/AU2004/001525**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in<br>Search Report                                                                                 |          |    |             | Patent Family Member |            |    |            |
|---------------------------------------------------------------------------------------------------------------------------|----------|----|-------------|----------------------|------------|----|------------|
| US                                                                                                                        | 6303888  | WO | 2000/038206 | EP                   | 1058282    |    |            |
| JP                                                                                                                        | 10083730 |    | NONE        |                      |            |    |            |
| EP                                                                                                                        | 1207543  | CN | 1363942     | JP                   | 2002150876 | US | 2002092753 |
| US                                                                                                                        | 4768284  | US | 4352963     |                      |            |    |            |
| JP                                                                                                                        | 09007453 |    | NONE        |                      |            |    |            |
| JP                                                                                                                        | 10255589 |    | NONE        |                      |            |    |            |
| Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. |          |    |             |                      |            |    |            |
| END OF ANNEX                                                                                                              |          |    |             |                      |            |    |            |